



# Dr. Ch. Rami Reddy

Assistant Professor, Computer Science and Engineering,  
Associate Professor, Electrical and Electronics Engineering.

## Contact

+91-7013614827  
crrreddy229@gmail.com

## Home Address

Plot. No: 302, 4-40/55,  
Dwaraka Nagar,  
Bandlaguda Jagir,  
Hyderabad – 500086

## Category

General - OC

## Date of Birth

13- Apr- 1989 (36 Years)

## Memberships

SMIEEE - 97289036  
Life Member ISTE - 142191  
IAENG - 229296  
MISES - 35818  
IFERP - PROF39086928

## Administrative Experience

Dean R&D,  
Head of the Department,  
NBA Coordinator,  
NAAC Coordinator,  
NIRF Coordinator,  
Chairman Board of Studies

## Professional Experience

**Post Doctoral Fellow** in Electrical Power Systems from Chonnam National University, South Korea in 2024.

**Post Doctoral Fellow** in Electrical Power Systems from the National Institute of Technology, Srinagar in 2023.

## Education

**M. Tech**, Computer Science and Engineering (CSE) from JNTU Kakinada in 2025, with First Class.

**Ph.D**, Electrical Power Systems (EEE), from K L University, Guntur, in 2022, Awarded.

**M. Tech**, Electrical Machines and Drives (EEE), from JNTU Kakinada in 2014, First Class with Distinction.

**B. Tech**, Electrical and Electronics Engineering (EEE), from JNTU Kakinada in 2011, First Class with Distinction.

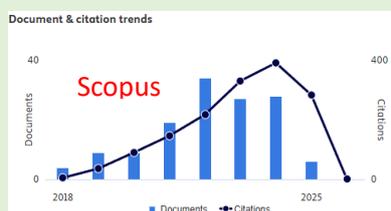
## Research Profile

**Scopus Profile:** [57203255321](#)

Documents: 136

Citations: 1500

H-Index: 21



| Profile summary |   | Web of Science Core Collection metrics |                          |
|-----------------|---|--|--------------------------|
| 116             | Total documents                             | 16                                     | 83                       |
| 96              | Publications indexed in Web of Science      | H-Index                                | Publications             |
| 83              | Web of Science Core Collection publications |  |                          |
| 0               | Preprints                                   | 803                                    | 574                      |
| 0               | Dissertations or Theses                     | Sum of Times Cited                     | Citing Articles          |
| 20              | Non-indexed publications                    |  |                          |
| 152             | Verified peer reviews                       | Wos                                    | i64                      |
| 36              | Verified editor records                     | um of Times Cited                      | 538                      |
| 0               | Awarded grants                              | (about self-citations)                 | Citing Articles          |
|                 |   |  | (without self-citations) |

**Web of Science Profile:** [F-4631-2019](#)

Documents: 83

Citations: 810

H-Index: 16

Verified Reviews: 152

Verified Editor Records: 36

**Google Scholar Profile:** [dDp46FkAAAAJ](#)

Documents: 140

Citations: 2100

H-Index: 25

## Marital Status / Family

Married,  
Spouse - Software  
Engineer, Sr. Consultant  
Two children

## Ph.D Supervisor Recognitions

K L Deemed to be  
University, Guntur  
VELS Deemed to be  
University, Chennai  
Visweswaraya  
Technological University,  
Bangalore

## Ph.D Scholars Awarded

Ch. S V P Rao (KL University)  
S. V. Rami Reddy (VELS)

## Ph.D Scholars Working

Sk. Kasim Vali ( K L University)  
V. Dharani (K L University)

## Subjects Taught

Switchgear and Protection,  
DC Machines,  
AC Machines,  
Electrical Circuits,  
Control Systems,  
Electro Magnetic Fields,  
DC Machines – Lab,  
AC machines – Lab,  
Electrical Circuits Lab

## Research Areas

Distributed generation,  
Power quality,  
Electric vehicles,  
Image Processing,  
Deep learning

## Patents

Published: 06  
Granted: 03 FER submitted

## PhD Scholars

Awarded: 2  
Pursuing: 2

## Academic Editor/ Guest Editor

Scientific Reports - SCIE Journal - Q1  
PLOS One - SCIE Journal - Q2  
Energies - SCIE Journal - Q2  
Frontiers in Energy Research - SCIE Journal  
International Journal of Applied Power Engineering – Scopus  
International Journal of Smartgrid - Scopus

## Journal Manager/ Editor in Chief

International Transactions on Electrical Engineering and  
Computer Science , Open access – DOAJ, Crossref indexed.

## Books/Book Chapters

Books: 03  
Book Chapters: 15

## Interaction with the outside world

- BoS Subject expert
- Question paper setter for UG/PG and Ph.D
- Track chair for conferences
- Resource person for Conferences/FDPs/Workshops
- Ph.D thesis evaluator
- Research collaboration with international universities
- Editorial board member / Reviewer for SCIE journals
- Research Fellow, Applied Science Private University, Jordan

## Academic Experience

12 + Years

- Working as an **Associate Professor** in Electrical and Electronics Engineering, Joginpally B R Engineering College, Hyderabad, from January 2025 to the present.
- Worked as **Assistant Professor** in Electrical and Electronics Engineering, Malla Reddy Engineering College, Hyderabad from 15<sup>th</sup> – Feb – 2021 to 2<sup>nd</sup> – Dec – 2022.
- Worked as **Assistant Professor** in Electrical and Electronics Engineering, Nalanda Institute of Engineering and Technology, Guntur from 24 – June – 2014 to 14 – Feb – 2021.

## Ratification Details

AICTE faculty ID  
1-2199312478

JNTUH Faculty ID  
5990-210322-142425

Ratified as  
Assistant Professor by  
JNTUK, Kainada ,  
JNTUH, Hyderabad

## Countries Visited

South Korea,  
Malaysia,  
Japan,  
Thailand,  
Singapore

## Ph.D Thesis Details

**Thesis title:** Islanding Detection of Integrated Distributed Generation

**Supervisor:** Dr. K. Harinadha Reddy, Professor, EEE

## Selected Publications

- [1] Ch. Rami Reddy, Joon Ho Choi, and B. Pangedaiah "Absolute positive sequence voltage difference based passive islanding detection in micro grids", *IEEE Transactions on Industry Applications*, vol. 60, no. 3, pp. 4633-4641, 2024.
- [2] Ch. Rami Reddy, Choi, J. H., Sekhar, O. C., Colak, I., & Khalid, M "State of the art review of islanding detection methods for integrated distributed generation system", *Electric Power Components and Systems*, vol. 52, no. 10, pp. 1906-1935, 2024.
- [3] Ch Rami Reddy, Obbu Chandra Sekhar, B. Pangedaiah, Khalid A. Khan, and Muhammad Khalid "Passive island detection method based on positive sequence components for grid-connected solar-wind hybrid distributed generation system", *Electric Power Components and Systems*, vol. 52, no. 7, pp. 1129-1144, 2024.
- [4] Vali, A. Kasim, P. Srinivasa Varma, and Ch. Rami Reddy. "Pelican-FOPID Based DSTATCOM for real-time load compensation and harmonics mitigation in three-phase distribution system", *Sustainable Computing: Informatics and Systems*, vol. 42, art. no. 100978, 2024.
- [5] Ch. Rami Reddy, and K. Harinadha Reddy "A deep CNN approach for islanding detection of integrated DG with time series data and scalogram", *Soft Computing*, vol. 27, no. 8, pp. 4943-4951, 2023.
- [6] Sareddy Venkata Rami Reddy, T. R. Premila, Ch. Rami Reddy, Muhammad Majid Gulzar, and Muhammad Khalid "A new variational mode decomposition-based passive islanding detection strategy for hybrid distributed renewable generations", *Arabian Journal for Science and Engineering*, vol. 48, no. 11, pp. 15435-15443, 2023.

## Research Proposals

| Sl. No | Title of the Project  | Funding Agency               | Role                   | Grant              | Status    |
|--------|---|------------------------------|------------------------|--------------------|-----------|
| 1      | Islanding Detection and Load Shedding Implementation for Integrated Multiple Distributed Generation fed Smart Grids | SERB - SURE<br>India         | Principal Investigator | Rs:<br>15,12,500/- | Submitted |
| 2      | Islanding Detection and Load Shedding Implementation in Micro Grids   | UGC-<br>Dr. Kothari<br>India | Principal Investigator | Rs:<br>10,00,00/-  | Submitted |

## SCIE Publications

55

| Sl. No | Author (s)   | Title  | Name of the Journal | Vol (No) | Page/ Article no | Year |
|--------|--|--|---------------------|----------|------------------|------|
| 1      | G Madhu Mohan,<br>T Anil Kumar,<br>A Srujana,<br>Yasser Fouad,<br>Alexey Mikhaylov,<br>Nora Baranyai,<br>Kitmo,<br>Ch Rami Reddy                                     | Real-time congestion control using cascaded LSTM deep neural networks for deregulated power markets                | Scientific Reports  | 15(1)    | 30581            | 2025 |
| 2      | Goud B.S.;<br>Kalyan C.N.S.;<br>Rao G.S.;<br>Mohapatra B.;<br>Kuppireddy N.R.;<br>Pulluri H.;<br>Reddy C.R.;<br>Shorfuzzaman M.;<br>Zneid B.A.;<br>Pushkarna M.      | GRU controller-based UPQC compensator design for improving power quality in grid-integrated non-linear load system | Scientific Reports  | 15(1)    | 19677            | 2025 |
| 3      | Rajanala P.;<br>Kumar M.K.;<br>Giriprasad A.;<br>Choi J.-H.;<br>Rao K.V.G.;<br>Sravan V.S.;<br>Reddy C.R.  | Intelligent MPPT and coordinated control for voltage stability in brushless DFIG wind turbines                     | Scientific Reports  | 15(1)    | 22669            | 2025 |
| 4      | Pulluri H.;<br>Devi T.A.;<br>Kuppireddy N.R.;<br>Dahiya P.;<br>Naga sai kalyan C.;<br>Goud B.S.;<br>Shorfuzzaman M.;<br>ELrashidi A.;<br>Nureldeen W.;<br>Reddy C.R. | Solution of optimal power flow with wind power uncertainty using hybridized self-adaptive differential evolution   | Scientific Reports  | 15(1)    | 26206            | 2025 |

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|----|--|--|--|---------|-----------|------|
| 5  | Rao K.V.G.; Kumar M.K.; Goud B.S.; Udumula R.R.; Reddy C.R.; Balachandran P.K.; Zainuri M.A.A.M.; Ramasamy S.                              | Zero voltage switching with reduced current stress for LED lighting applications   | IET Power Electronics                          | e12832  | e12832    | 2025 |
| 6  | Ch. Rami Reddy<br>Zoon Ho Choi,<br>B. Pangedaiah   | A novel passive islanding detection with absolute positive sequence components   | IEEE Transactions on Industry Applications     | 60 (3)  | 4633-4611 | 2024 |
| 7  | Ch. Rami Reddy,<br>Joon-Ho Choi,<br>O. C. Sekhar,<br>Ilhami Colak &<br>Muhammad Khalid   | State of the Art Review of Islanding Detection Methods for Integrated Distributed Generation System                      | Electric Power Components and Systems          | 52 (10) | 1906-1935 | 2024 |
| 8  | A. Kasim Vali<br>P. Srinivasa Varma<br>Ch. Rami Reddy  | Pelican-FOPID Based DSTATCOM for real-time load compensation and harmonics mitigation in three-phase distribution system | Sustainable Computing: Informatics and Systems | 42      | 100978    | 2024 |
| 9  | Ch. S. V. P. Rao,<br>A. Pandian,<br>Ch. Rami Reddy,<br>M. Majid Gulzar,<br>Muhammad Khalid   | A Novel Hybrid RERNN-SCSO Technique-based Unified Power Quality Conditioner of Microgrid in an EV Charging Station       | Arabian Journal for Science and Engineering    | 49      | 7277-7306 | 2024 |
| 10 | B. Nagi Reddy,<br>Radhika Jalli,<br>K. Sai Prudhviraj,<br>K. B. Shetty,<br>Ch. Rami Reddy,<br>Hossam Kotb,<br>Ahmed Emara,<br>M. Alruwaili | Wind turbine with line-side PMSG FED DC-DC converter for voltage regulation  | PLOS-ONE                                       | 19(6)   | 305272    | 2024 |
| 11 | B. Nagi Reddy,<br>Faisal Alsaif,<br>Ch. Rami Reddy &<br>S. Sunil Kumar   | Development of multiple-input supply-based modified SEPIC DC-DC converter for efficient management of DC microgrid       | Scientific Reports                             | 14      | 11066     | 2024 |
| 12 | Edara Sreelatha,<br>A. Pandian,<br>Ch. Rami Reddy,<br>M. Kiran Kumar,<br>Hossam Kotb,<br>K. M. AboRas,<br>Y. Yasin Ghadi<br>Ambe Harrison  | An efficient high-gain bidirectional interleaved boost converter for PV integration to DC microgrid                      | PLOS-ONE                                       | 19(5)   | 301522    | 2024 |

|    |   |  |  |         |         |      |
|----|---|--|--|---------|---------|------|
| 13 | Cheepati K.R.;<br>Daram S.B.;<br>Rami Reddy C.;<br>Mariprasanth T.;<br>Alamri B.;<br>Alqarni M.                                   | Analysis of Transient Stability through a Novel Algorithm with Optimization under Contingency Conditions                           | Energies   | 17 (17) | 4404    | 2024 |
| 14 | T. Anuradha Devi,<br>G. Srinivasa Rao,<br>T. Anil Kumar,<br>B. Srikanth Goud,<br>Ch. Rami Reddy,<br>M.W.D Eutyche,<br>Flah Aymen, | Hybrid optimal-FOPID-based UPQC for reducing harmonics and compensate load power in renewable energy sources grid connected system | PLOS-ONE   | 19(5)   | 300145  | 2024 |
| 15 | Sakthivel R.;<br>Vijayalakshmi Ch.;<br>Vanitha M.;<br>AboRas K.M.;<br>Abdelfattah W.M.;<br>Ghadi Y.Y.;<br>Reddy Ch.R.             | Hardware optimization for effective switching power reduction during data compression in GOLOMB rice coding                        | PLOS-ONE   | 19      | 0308796 | 2024 |
| 16 | Srinivasan G.;<br>Cheepati K.R.;<br>Goud B.S.;<br>Alqarni M.;<br>Alamri B.;<br>Rami Reddy C.                                      | Optimizing Techno-Economic Framework of REGs in Capacitive Supported Optimal Distribution Network                                  | Energies   | 17 (23) | 5840    | 2024 |
| 17 | Tania Gupta,<br>Richa Bhatia,<br>Sachin Sharma,<br>Ch. Rami Reddy,<br>Kareem M. AboRas<br>and Wael Mobarak                        | A data-driven ensemble technique for the detection of false data injection attacks in the smart grid framework                     | Frontiers in Energy Research                                 | 12      | 1-13    | 2024 |
| 18 | Ch. S. V. P. Rao<br>A. Pandian,<br>Ch. Rami Reddy<br>Mohit Bajaj<br>Jabir Massoud and<br>Mokhtar Shouran                          | Unified power quality conditioner-based solar EV charging station using the GBDT – JS Technique                                    | Frontiers in Energy Research                                 | 12      | 1-22    | 2024 |
| 19 | M. Pushkarna,<br>K. V. G. Rao,<br>B. Srikanth Goud,<br>M. Kiran Kumar,<br>Ch. Rami Reddy,<br>Hossam Kotb,                         | A new-fangled connection of UPQC tailored power device from wind farm to weak-grid   | Frontiers in Energy Research                                 | 12      | 1355867 | 2024 |
| 20 | C. Kumar Reddy,<br>Ch. Rami Reddy,<br>M. Khalid   | Design of Triple Tuned Passive Harmonic Power Filter - A Novel Approach  | IEEE Canadian Journal of Electrical and Computer Engineering | 46 (4)  | 270-277 | 2023 |

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|----|--|---|--|------|-----------------|------|
| 21 | S. V. Rami Reddy,<br>T. R. Premila,<br>Ch. Rami Reddy,<br>M. M. Gulzar,<br>Muhammad Khalid                         | A New Variational Mode<br>Decomposition-Based Passive<br>Islanding Detection Strategy<br>for Hybrid Distributed<br>Renewable Generations  | Arabian Journal<br>for Science and<br>Engineering                | 48   | 15435-<br>15443 | 2023 |
| 22 | Ch. Rami Reddy,<br>O. Chandra Sekhar<br>B. Pangedaiah<br>Khalid A Khan<br>M. Khalid                                | Passive Island Detection<br>Method Based on Positive<br>Sequence Components for<br>Grid-Connected Solar-Wind<br>Hybrid Distributed<br>Generation System   | Electric Power<br>Components and<br>Systems                      |      | 1-16            | 2023 |
| 23 | Ch. Rami Reddy,<br>K. H. Reddy   | A Deep CNN Approach for<br>Islanding Detection of<br>Integrated DG with Time<br>Series Data and Scalogram   | Soft Computing   | 27   | 4943-4951       | 2023 |
| 24 | S. V. Rami Reddy,<br>T. R. Premila,<br>Ch. Rami Reddy,<br>M. A. Alharbi,<br>Basem Alamri                           | Passive Island Detection<br>Method Based on Sequence<br>Impedance Component and<br>Load-Shedding<br>Implementation  | Energies   | 16   | 1-20            | 2023 |
| 25 | Harish Pulluri,<br>G. K. Nadakuditi,<br>B. Vedik,<br>B. Srikanth Goud,<br>Ch. Rami Reddy,<br>Hossam Kotb           | Krill herd technique for<br>dynamic economic dispatch<br>problems with the integration<br>of wind power generation  | Frontiers in<br>Energy Research                                  | 11   | 1339020         | 2023 |
| 26 | M. Vijay Kumar<br>Alur Veeresh Babu<br>Ch. Rami Reddy<br>A. Pandian<br>Mohit Bajaj<br>H. M. Zawbaa,<br>Salah Kamel | Investigation of the<br>combustion of exhaust gas<br>recirculation in diesel engines<br>with a particulate filter and<br>selective catalytic reactor<br>technologies for<br>environmental gas reduction | Case studies in<br>thermal<br>engineering                        | 40   | 102557          | 2023 |
| 27 | M. Alqahtani,<br>P. Marimuthu,<br>V. Moorthy,<br>B. Pangedaiah,<br>Ch. Rami Reddy,<br>M. Kiran Kumar               | Investigation and<br>Minimization of Power Loss<br>in Radial Distribution<br>Network Using Gray Wolf<br>Optimization  | Energies   | 16   | 4751            | 2023 |
| 28 | K. Ashok Kumar,<br>M. Kiran Kumar,<br>Ch. Rami Reddy,<br>M. Alqahtani and<br>Muhammad Khalid                       | A novel controller for PV-fed<br>water pumping optimization<br>system driven by an 8/6 pole<br>SRM with asymmetrical<br>converter   | Frontiers in<br>Energy Research                                  | 11   | 1-25            | 2023 |
| 29 | Ch. Amarendra,<br>A. Pandian,<br>Ch. Rami Reddy,<br>Ch. N. Sai Kalyan,<br>Mohit Bajaj                              | Modified Hybrid PSO<br>Algorithm for Efficient<br>Control of the Matrix<br>Converter-Fed Electrical<br>Drive System   | International<br>Transactions on<br>Electrical Energy<br>Systems | 2023 | 4344270         | 2023 |

|    |   |   |  |         |                       |      |
|----|---|---|--|---------|-----------------------|------|
| 30 | Flah Aymen<br>Ch. Rami Reddy<br>EC Bortani  | Solving the environmental economic dispatch problem using the hybrid FA-GA multi-objective algorithm  | Energy Reports                           | 08      | 13766-13779           | 2022 |
| 31 | L. B. Raju,<br>K. Subba Rao,<br>M. Kiran Kumar,<br>Ch. Rami Reddy,<br>M. Pushkarna,<br>Mohit Bajaj                      | Integrated Microgrid Islanding Detection with Phase Angle Difference for Reduced Nondetection Zone  | International Journal of Energy Research | 2023    | 2275191               | 2023 |
| 32 | Ch. Rami Reddy<br>P.V. Satyanarayan<br>B. Pangedaiah  | Combined DC-Link Fed Parallel-VSI-Based DSTATCOM for Power Quality Improvement of a Solar DG Integrated System  | Electronics                              | 12      | 505-520               | 2023 |
| 33 | M. Vijaya Kumar,<br>T. Subba Reddy,<br>O.C. Sekhar<br>Ch. Rami Reddy  | Experimental Investigation and Performance Characteristics of Francis Turbine with Different Guide Vane Openings in Hydro DG Power Plants                 | Energies                                 | 15      | 6798                  | 2022 |
| 34 | Ch. Rami Reddy<br>Flah Aymen<br>Edson Bortoni   | Improving the power quality of island microgrid with voltage and frequency control based on a hybrid genetic algorithm and PSO                            | IEEE Access                              | 10      | 105352<br>-<br>105365 | 2022 |
| 35 | KK Deepika,<br>P. S. Varma,<br>Ch Rami Reddy,<br>O. C. Sekhar,<br>M. Alsharef, Yasser<br>Alharbi, Basem<br>Alamri       | Comparison of Principal-Component Analysis-Based Extreme Learning Machine Models for Boiler Output Forecasting  | Applied Sciences                         | 12      | 1-20                  | 2022 |
| 36 | C. S. Prasad Rao,<br>A. Pandian,<br>Ch. Rami Reddy<br>A.Giri Prasad<br>Ahmad Alahmadi<br>Yasser Alharbi                 | A Hybrid AOSAOA Scheme Based on the Optimal Location for Electric Vehicle Parking Lots and Capacitors in a Grid to Care of Voltage Profile and Power Loss | Energies                                 | 15      | 1-25                  | 2022 |
| 37 | Vijay Kumar M.;<br>Srinivas Reddy T.;<br>Rami Reddy C.;<br>Rami Reddy S.V.;<br>Alsharef M.;<br>Alharbi Y.;<br>Alamri B. | Impact of a Thermal Barrier Coating in a Low Heat Rejection Environment Area of a Diesel Engine   | Sustainability                           | 14 (23) | 15801                 | 2022 |
| 38 | CH. N. Sai Kalyan B.<br>Srikanth Goud<br>Ch. Rami Reddy   | Performance Assessment of Open-Loop and Closed-Loop Generation Rate Constraint  | Frontiers in Energy Research             | 10      | 1-17                  | 2022 |

|    |  |   |  |    |             |      |
|----|--|---|--|----|-------------|------|
|    | M. Kiran Kumar<br>Mohit Bajaj<br>M. F. El-Naggar<br>Salah Kamel  | Models for Optimal LFC of the Three-Area Reheat Thermal System  |  |    |             |      |
| 39 | Srikanth Goud B,<br>Ch Rami Reddy,<br>U. R. Reddy<br>Mohit Bajaj<br>B. Abdul Samad,<br>M. Shouran and<br>Salah Kamel | PV/WT Integrated System Using Grey Wolf Optimization Technique for Power Quality Improvement  | Frontiers in Energy Research                   | 10 | 1-14        | 2022 |
| 40 | E. Elgamli,<br>Ch. N. Sai Kalyan,<br>B Srikanth Goud,<br>Ch Rami Reddy,<br>U. R. Reddy<br>Mohit Bajaj                | Seagull Optimization Algorithm-Based Fractional Order Fuzzy Controller for LFC of Multi Area Diverse Source System with Realistic Constraints | Frontiers in Energy Research                   | 10 | 921426      | 2022 |
| 41 | C. S. Prasad Rao,<br>A. Pandian,<br>Ch. Rami Reddy,<br>A. Flah,<br>M. Alqarni and<br>M. Alharthi                     | Location Determination of Electric Vehicles Parking Lot with Distribution System by Mexican AXOLOTL Optimization and Wild Horse Optimizer     | IEEE Access                                    | 10 | 55408-55427 | 2022 |
| 42 | G. Swapna,<br>P. S. Varma Pinni<br>Ch. Rami Reddy<br>Flah Aymen<br>M. Alqarni<br>Basem Alamri<br>Habib Kraiem        | Distribution System Service Restoration Using Electric Vehicles   | Energies                                       | 15 | 1-15        | 2022 |
| 43 | Ch. Rami Reddy<br>B. Srikanth<br>B. Nagi Reddy<br>K. SDarada<br>M. Bajaj<br>Ch. N. Kalyan                            | Faulted Section Identification and Fault Location in Power Network Based on Histogram Analysis of Three phase Current and Voltage Modulated   | Journal of Electrical Engineering & Technology | 17 | 2631 – 2647 | 2022 |
| 44 | Ch. Rami Reddy<br>K. H. Reddy<br>Flah Aymen<br>B. Srikanth Goud<br>M. Bajaj<br>M. J. Abdulaal<br>A. H. Milyani       | Hybrid ROCOF Relay for Islanding Detection  | Journal of Electrical Engineering & Technology | 17 | 51-60       | 2022 |
| 45 | Ch. Rami Reddy,<br>Ch. Kalyan,<br>B.S. Goud,<br>Mohit Bajaj,<br>N.K.Sharma,<br>H.H. Alhelou,                         | Comparative Performance Assessment of Different Energy Storage Devices in Combined LFC and AVR Analysis of Multi-Area Power System            | Energies                                       | 15 | 629         | 2022 |

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|----|--|---|---|--------|-----------------------|------|
|    | Salah Kamel.   |   |   |        |                       |      |
| 46 | Ch. Rami Reddy<br>T. Raghu<br>K. Harinadha Reddy   | Unified power flow controller in a grid-connected hybrid renewable energy system for power flow control using an elitist control strategy             | Transactions of the Institute of Measurement and Control                | 43 (1) | 228<br>247            | 2021 |
| 47 | B. Srikanth Goud<br>Ch. Rami Reddy,<br>Mohit Bajaj,<br>E. E. Elattar and<br>Salah Kamel                              | Power Quality Improvement Using Distributed Power Flow Controller with BWO-Based FOPID Controller   | Sustainability  | 13     | 1-33                  | 2021 |
| 48 | Ch. Rami Reddy,<br>B. Srikanth Goud,<br>Flah Aymen , G.<br>Srinivasa Rao and<br>Edson C. Bortoni                     | Power Quality Improvement in HRES Grid Connected System with FOPID Based Atom Search Optimization Technique   | Energies  | 14     | 1-22                  | 2021 |
| 49 | Ch. Rami Reddy,<br>Flah aymen,<br>N. Mohamed,<br>S.C. Mosleh<br>M. Alharthi,<br>S. M. Ghoneim                        | An Improved Direct Torque Control Topology of a Double Stator Machine Using the Fuzzy Logic Controller  | IEEE Access   | 9      | 126400<br>-<br>126412 | 2021 |
| 50 | Sivasankarareddy,<br>V., Sundari, G.,<br>Ch. Rami Reddy,<br>Aymen, F., &<br>E. C. Bortoni                            | Grid-Based Routing Model for Energy Efficient and Secure Data Transmission in WSN for Smart Building Application                                      | Applied Sciences  | 11     | 10517                 | 2021 |
| 51 | Ch. Rami Reddy,<br>M. Jayachandran,<br>S. Padmanaban<br>A. H. Milyani  | Operational planning steps in a smart electric power delivery system  | Scientific Reports  | 11     | 17250                 | 2021 |
| 52 | Ch. Rami Reddy,<br>Ch. Naga Sai Kalyan,<br>B. Srikanth Goud,<br>Haitham S.<br>Ramadan,<br>Mohit Bajaj<br>Ziad M. Ali | Water Cycle Algorithm Optimized Type II Fuzzy Controller for Load Frequency Control of a Multi-Area, Multi-Fuel System with Communication Time Delays | Energies  | 14     | 1-22                  | 2021 |
| 53 | Ch. Rami Reddy<br>B. Srikanth Goud<br>B. Loveswara Rao   | An intelligent technique for optimal power quality reinforcement in a grid-connected HRES system: EVORFA technique                                    | Journal of Numerical Modelling, Electronic Devices, Networks and Fields | 34     | 1-30                  | 2021 |
| 54 | Ch. Rami Reddy<br>J. R. Reddy<br>A. Pandian  | An efficient learning based RFMFA technique for islanding detection scheme in   | Applied Soft Computing  | 96     | 106638                | 2020 |

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|----|--------------------------------------|--|--|----|-----------------|------|
|    |                                      | distributed generation systems   |  |    |                 |      |
| 55 | Ch. Rami Reddy<br>K. Harinadha Reddy | A new passive islanding detection technique for integrated distributed generation system using rate of change of regulator voltage over reactive power at balanced islanding | Journal of Electrical Engineering & Technology | 14 | 527<br>-<br>534 | 2019 |

### ESCI Publications

| Sl. No | Author (s)  | Title  | Name of the Journal                                | Volume | Page/ Article no | Year |
|--------|---|--|--|--------|------------------|------|
| 56     | Edara Sreelatha<br>A. Pandian<br>P. Sarala<br>Ch. Rami Reddy  | Design of Symmetrical Voltage Multiplier High Gain Interleaved DC to DC Converter for Photovoltaic Applications                                  | Engineering, Technology & Applied Science Research | 14 (3) | 14525-14532      | 2024 |
| 57     | Satyanarayana P.V.V.;<br>Kumar M.D.;<br>Prasad A.G.;<br>Pangedaiah B.;<br>Reddy S.V.R.;<br>Reddy C.R.;<br>Varma P.S.;<br>Kumar M.K.;<br>Goud B.S. | Passive Islanding Detection Method based on Resultant Sequence Impedance Component and Load Shedding in Islanded Area                            | International Journal of Renewable Energy Research | 14 (1) | 14-22            | 2024 |
| 58     | R. N. Teja Reddy;<br>Kavitha M.;<br>Reddy G.S.;<br>Yousef A.;<br>AboRas K.M.;<br>Emara A.;<br>Reddy C.R.  | Mayfly optimistic hyperelliptic curve cryptosystem   | Frontiers in Computer Science                      | 6      | 1381850          | 2024 |
| 59     | J. Jayaraj<br>Dakka Obulesu<br>H. Govindaraj<br>F. T. Josh<br>Ch. Rami Reddy  | A Hybrid Intelligent Controller for Extended-Range Electric Vehicles   | Engineering, Technology & Applied Science Research | 14 (2) | 13408-13415      | 2024 |
| 60     | Ch. Rami Reddy<br>A. Giri Prasad<br>Y. Venu   | Realization of Small Scale Models of FCATS Devices and its Optimization in Power Systems using Stability Indices and Particle Swarm Optimization | Journal of Electrical Systems                      | 19     | 53-63            | 2023 |

|    |  |   |  |        |                 |      |
|----|--|---|--|--------|-----------------|------|
| 61 | Ch. Rami Reddy<br>A. Giri Prasad<br>Y. Venu  | Suppression of Ferranti Effect of Transmission System Using Closed Loop Control of FACTS Devices.   | Journal of Electrical Systems                          | 18     | 474-486         | 2022 |
| 62 | Ch. Rami Reddy<br>B. S. Goud<br>Ch. N. S. Kalyan<br>M. Bajaj<br>G. Srinivasa rao                             | SMES and TCSC Coordinated Strategy for Multi-area Multi-source System with Water Cycle Algorithm Based 3DOF-PID Controller                        | Smart Science (Taylor & Francis)                       | 10     | 1-15            | 2022 |
| 63 | Ch. N. S. Kalyan<br>G. Swapn<br>S. Rajasekaran<br>B. S. Goud<br>Ch. Rami Reddy                               | Coordinated IPFC and SMES Strategy for Stability Analysis of Renewable Energy Based Contemporary Interconnected Power System with FOPI Controller | International Journal of Renewable Energy Research     | 12     | 1052-1062       | 2022 |
| 64 | R. B. R. Prakash<br>P. S. Varma<br>Ch. Rami Reddy<br>M. Dilip Kumar<br>A. Giri Prasad<br>E. Shiva Prasad     | Maximum Power Point Tracking for Permanent Magnet Synchronous Generator based Wind Park Application   | International Journal of Renewable Energy Research     | 12     | 846-862         | 2022 |
| 65 | Ch. Rami Reddy<br>K. H. Reddy<br>S. Govinda Raju   | Islanding Detection Parameters for Integrated Distributed Generation  | Recent Advances in Electrical & Electronic Engineering | 14     | 131<br>-<br>143 | 2021 |
| 66 | Ch. Rami Reddy<br>A.V. Sudhakar<br>B. Srikanth<br>Ch. Narendra   | Power Quality Improvement in Integrated System using Inductive UPQC   | International Journal of Renewable Energy Research     | 11     | 566<br>-<br>576 | 2021 |
| 67 | Goud B.S.;<br>Rakesh T.;<br>Nalli R.;<br>Reddy C.R.;<br>Kalyan C.N.S.;<br>Reddy B.N.;<br>Aymen F.            | Grid Integration of Renewable Energy Sources Using GA Technique for Improving Power Quality   | International Journal of Renewable Energy Research     | 11 (3) | 1390-1402       | 2021 |
| 68 | Kalyan C.N.S.;<br>Venkateswarlu A.N.;<br>Reddy C.R.;<br>Goud B.S.;<br>Prasad A.G.;<br>Sriram C.;<br>Aymen F. | Frequency Regulation of Multi Area Renewable Energy Source System with Practical Constraints under Fractional-Order Fuzzy Controller              | International Journal of Renewable Energy Research     | 11 (3) | 992-1002        | 2021 |

|    |  |   |  |     |                   |      |
|----|--|---|--|-----|-------------------|------|
| 69 | Ch. Rami Reddy<br>B. Srikanth<br>Ch. Narendra<br>G. Rami Reddy | Passive Islanding Detection Methods for Integrated Distributed Generation System  | Journal of Power Technologies                      | 101 | 127-134           | 2021 |
| 70 | Ch. Rami Reddy<br>B. S. Goud<br>B. L. Rao                      | Essentials for grid integration of hybrid renewable energy systems: A brief review  | International Journal of Renewable Energy Research | 10  | 813<br>-<br>830   | 2020 |
| 71 | Ch. Rami Reddy<br>K. Naresh<br>P. U. Reddy<br>P. Sujatha       | Control of DFIG based wind turbine with hybrid controllers  | International Journal of Renewable Energy Research | 10  | 1488<br>-<br>1500 | 2020 |
| 72 | Ch. Rami Reddy<br>K. Harinadha Reddy                           | Passive islanding detection technique for integrated distributed generation at zero power balanced islanding  | International Journal of Integrated Engineering    | 11  | 126<br>-<br>137   | 2019 |
| 73 | Ch. Rami Reddy<br>K. Harinadha Reddy                           | NDZ analysis of various passive islanding detection methods for integrated dg system over balanced islanding  | International Journal of Integrated Engineering    | 11  | 206<br>-<br>220   | 2019 |
| 74 | Ch. Rami Reddy<br>K. Harinadha Reddy                           | Islanding detection techniques for grid integrated distributed generation -A review   | International Journal of Renewable Energy Research | 9   | 960<br>-<br>977   | 2019 |
| 75 | Ch. Rami Reddy<br>K. Harinadha Reddy                           | An efficient passive islanding detection method for integrated DG system with zero NDZ  | International Journal of Renewable Energy Research | 8   | 1994<br>-<br>2002 | 2018 |
| 76 | Ch. Rami Reddy<br>K. Harinadha Reddy                           | Islanding detection for inverter based distributed generation with Low frequency current harmonic injection through Q controller and ROCOF analysis | Journal of Electrical Systems                      | 14  | 179<br>-<br>191   | 2018 |

## Scopus Publications

| Sl. No | Author (s)  | Title   | Name of the Journal  | Volume | Page/ Article no | Year |
|--------|---|---|--|--------|------------------|------|
| 77     | Tadivaka T.S.;<br>Kumar M.K.;<br>Teja S.R.;<br>Reddy C.R. | Development of dual functional converter for drive and charging power conversion for EV drive | International Journal of Power Electronics and Drive Systems | 16 (2) | 794-807          | 2025 |
| 78     | Tadivaka T.S.;<br>Kumar M.K.;<br>Reddy G.R.;              | Enhanced Luo Converter for Low Component Stress in DC-DC Power                                | International Journal of Electrical and Electronics Research | 13 (1) | 171-177          | 2025 |

|    |   |   |  |        |           |      |
|----|---|---|--|--------|-----------|------|
|    | Rami Reddy C.   | Conversion for Fuel Cell Powered BLDC Motor Drive   |  |        |           |      |
| 79 | G. Syam Kumar,<br>M. Dilip Kumar,<br>S. V. Rami Reddy,<br>B. V. S. Kumari,<br>Ch. Rami Reddy                                      | Injury Prediction in Sports using Artificial Intelligence Applications: A Brief Review  | Journal of Robotics and Control                              | 5 (1)  | 16-26     | 2024 |
| 80 | S. V. Rami Reddy,<br>Rekha Mudundi,<br>M. Kiran Kumar,<br>Ch. Rami Reddy,<br>T. V. Sai Kalyani,<br>D. Ravi Kumar<br>B. Nagi Reddy | TS fuzzy control of PV assisted single phase three phase induction motor drive for rural pumping applications                   | Transactions on Energy Systems and Engineering Applications  | 5 (1)  | 537       | 2024 |
| 81 | Ambati G.;<br>Ganga Dinesh Kumar A.;<br>Raghu T.;<br>Seshukumari B.V.;<br>Duvvuru R.R.;<br>Rami Reddy C.                          | Power Quality Improvement of PV fed Grid Connected System using ANN Controlled Shunt Active Power Filter                        | International Journal of Electrical and Electronics Research | 12 (4) | 1287-1292 | 2024 |
| 82 | Bharathi M.;<br>Prasanth I.S.N.V.R.;<br>Devi T.A.;<br>Kumar M.K.;<br>Kumar D.R.;<br>Reddy C.R.                                    | PM flux-reversal machine for wind energy application  | International Journal of Applied Power Engineering           | 13 (4) | 909-919   | 2024 |
| 83 | Reddy S.V.R.;<br>Reddy C.R.   | Islanding Detection of Integrated System using Hybrid ROCOF and Current Injection Technique                                     | International Journal of Smart Grid                          | 8 (2)  | 115 - 120 | 2024 |
| 84 | S. V. Rami Reddy,<br>T. R. Premila,<br>Ch. Rami Reddy,<br>and B. Nagi Reddy   | Zero power mismatch islanding detection algorithm for hybrid distributed generating system                                      | Transactions on Energy Systems and Engineering Applications  | 4 (2)  | 534       | 2023 |
| 85 | B. Nagi Reddy,<br>K. Sarada, M.<br>Bharathi,<br>Y. Anil Kumar,<br>Ch. Rami Reddy<br>B. Srikanth Goud                              | Five Level H-Bridge Configuration Based Microgrid with Sugeno Fuzzy Controller for New Energy Generation from Renewable Systems | Transactions on Energy Systems and Engineering Applications  | 4      | 1-14      | 2023 |
| 86 | Amarendra C.;<br>Chandra Sekhar O.;<br>Rami Reddy C.;<br>Srinivasa Varma P.;<br>Ravi Kumar D.;                                    | Mutated PSO Tuned PID Parameters for SEPIC Converter  | Advances in Transdisciplinary Engineering                    | 32     | 387-382   | 2023 |

|    |  |  |  |       |                   |      |
|----|--|--|--|-------|-------------------|------|
|    | Parveen M.D.   |  |  |       |                   |      |
| 87 | Ch. Rami Reddy<br>B. S. Goud   | A new passive islanding detection method for hybrid distributed generation under zero power imbalance  | International Journal of Power and Energy Conversion                         | 12    | 252<br>-<br>265   | 2021 |
| 88 | J Rajesh Reddy,<br>A Pandian,<br>Dhanasekaran,<br>Ch. Rami Reddy,<br>B Neelima Devi        | Islanding detection of integrated distributed generation with advanced controller  | Indonesian Journal of Electrical Engineering and Computer Science            | 17    | 1626<br>-<br>1631 | 2020 |
| 89 | Raheema Syed,<br>P. S. Varma,<br>R.B.R Prakash,<br>Ch. Rami Reddy                          | Unit commitment based reliability analysis with contingency constraint   | Indonesian Journal of Electrical Engineering and Computer Science            | 16    | 74<br>-<br>81     | 2019 |
| 90 | Swarnalatha T.;<br>Anuja T.;<br>Ramana Reddy B.V.;<br>Rami Reddy C.                        | Spatial data warehousing for integrated urban data management  | International Journal of Recent Technology and Engineering                   | 8 (2) | 5088 - 5093       | 2019 |
| 91 | V. Krishna<br>Chaithanya,<br>A. Pandian,<br>RBR Prakash,<br>Ch. Rami Reddy                 | Analysis of Closed Loop control of Cascaded Three Phase Grid Tied Inverter using Fuzzy Logic Controller  | International Journal of Advanced Trends in Computer Science and Engineering | 08    | 1123<br>-<br>1127 | 2019 |
| 92 | Ch. Rami Reddy,<br>K Suresh,<br>P Anusha,<br>Sk Najma,<br>B. I. Rajkumar,<br>B. P. Lakshmi | A passive islanding detection method for hybrid distributed generation system under balanced islanding   | Indonesian Journal of Electrical Engineering and Computer Science            | 14    | 9-19              | 2019 |
| 93 | K. V. Siva Reddy,<br>SK. Moulali,<br>K. H. Reddy<br>Ch. Rami Reddy,<br>B. V. Rajanna       | Resonance Propagation and Elimination in Integrated and Islanded Micro grids   | International Journal of Power Electronics and Drive System                  | 09    | 1445<br>-<br>1456 | 2018 |
| 94 | Ch. Rami Reddy,<br>K. H. Reddy   | A passive islanding detection method for neutral point clamped multilevel inverter based distributed generation using rate of change of frequency analysis | International Journal of Electrical and Computer Engineering                 | 08    | 1967<br>-<br>1976 | 2018 |

## Conference Presentations/Proceedings

| Sl. No | Authors  | Title of the article   | Name of the conference   | Venue              | Date  | Year |
|--------|--|--|--|--------------------|---|------|
| 95     | Goud B.S.;<br>Rao K.V.G.;<br>Kumar M.K.;<br>Reddy C.R.;<br>Balachandran P.K.;<br>Harish P.             | SEPIC Derived High-Gain DC-DC Converter for Industry Applications                              | 2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation, SEFET 2024                                | Hyderabad          | 31 <sup>st</sup> July to 03 <sup>rd</sup> August 2024 | 2024 |
| 96     | SV. Rami Reddy<br>T R Premila<br>Ch. Rami reddy  | Islanding detection of an integrated wind energy system with variations in the DC link voltage | 2023 IEEE 3rd International Conference on Sustainable Energy and Future Electric Transportation  | Bhubaneswar, India | 12-13 August 2023                                     | 2023 |
| 97     | Reddy S.V.R.;<br>Premila T.R.;<br>Reddy C.R.   | Comparison of PI and FLC for Sepic and Buck Boost Converter Based Photovoltaic Systems         | 7th IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions, CSITSS 2023 - Proceedings | Bangalore, India   | 02-04 Nov 2023  | 2023 |
| 98     | C. S. V. P. Rao,<br>A. Pandian,<br>Ch. Rami Reddy,<br>M. Bajaj,<br>F. Jurado and<br>S. Kamel,          | A Hybrid Technique for EV Parking Lot Optimization with Improved Power Quality                 | 2023 5th Global Power, Energy and Communication Conference (GPECOM)  | Nevsehir, Turkiye  | 14-16 June 2023                                       | 2023 |
| 99     | C. S. V. P. Rao,<br>A. Pandian,<br>Ch. Rami Reddy,<br>M. Bajaj,<br>F. Jurado and<br>S. Kamel,          | Optimal Location of EV Parking Lot by MAOWHO technique in Distribution System                  | 2023 5th Global Power, Energy and Communication Conference (GPECOM)  | Nevsehir, Turkiye  | 14-16 June 2023                                       | 2023 |
| 100    | M. Kondalu;<br>N. K. Kishore;<br>Ch. Rami Reddy;<br>M. Kiran Kumar;<br>Ch. N. Kalyan,<br>D. Raja Reddy | Fuzzy Controller Based Transformer Less CHB Inverter for Grid Connected PV Systems             | 2022 4th International Conference on Circuits, Control, Communication and Computing  | Bangalore, India   | 21-23 December 2022                                   | 2022 |
| 101    | Ch. Rami Reddy;<br>Bingi G. Rani;<br>M. Kondalu;<br>O. C. Sekhar;                                      | Energy Management System for Hybrid Renewable Energy-Based Microgrid                           | 2022 IEEE 19th India Council International   | Kochi, India       | 24-26 November 2022                                   | 2022 |

|     |   |   |   |                                |                           |      |
|-----|---|---|---|--------------------------------|---------------------------|------|
|     | Gundu Venu,<br>Ch. N. kalyan  |   | Conference<br>(INDICON)   |                                |                           |      |
| 102 | Ch. Rami Reddy;<br>Y. Saijyotirmayi;<br>M. Kondalu;<br>O. C. Sekhar;<br>A. Pandian,<br>Ch. N. Kalyan  | PV Fed Vehicle<br>Application with<br>Fuzzy Controlled AOF<br>for Nonlinear Load                                      | 2022 IEEE 19th<br>India Council<br>International<br>Conference<br>(INDICON)   | Kochi,<br>India                | 24-26<br>November<br>2022 | 2022 |
| 103 | Kondalu M.;<br>Uday S.;<br>Reddy C.R.;<br>Sekhar O.C.;<br>Pandian A.;<br>Sai Kalyan C.N               | Grid Interactive Solar<br>PV Based Water<br>Pumping Using BLDC<br>Motor   | 2022 Sardar Patel<br>International<br>Conference on<br>Industry 4.0 -<br>Nascent<br>Technologies and<br>Sustainability for<br>'Make in India'<br>Initiative, SPICON<br>2022 | Mumbai,<br>India               | 22-23<br>December<br>2022 | 2022 |
| 104 | D. Raja Reddy;<br>G. Swathi;<br>M. Kondalu;<br>Ch. Rami Reddy;<br>B. S. Goud;<br>A. Pandian           | FLC based Solar fed<br>Micro Grid for Inertia<br>and Damping Analysis<br>with Droop Control                           | 2022 IEEE 2nd<br>International<br>Conference on<br>Mobile Networks<br>and Wireless<br>Communications<br>(ICMNWC)  | Tumkur,<br>Karnataka,<br>India | 02-03<br>December<br>2022 | 2022 |
| 105 | Ch. Rami Reddy;<br>P. Prudvi Raj;<br>P.V.S. Narayana;<br>B. Nagi Reddy;<br>O.C. Sekhar,<br>B. S. Goud | Improved ZSI-based<br>DVR for Power Quality<br>Improvement in Grid<br>Connected PV Systems                            | 2022 4th<br>International<br>Conference on<br>Circuits, Control,<br>Communication<br>and Computing  | Bangalore,<br>India            | 21-23<br>December<br>2022 | 2022 |
| 106 | D. Raja Reddy;<br>V. Aravindh;<br>M. Kondalu;<br>Ch. Rami Reddy;<br>O. C. Sekhar;<br>A. Pandian       | Power Quality<br>Improvement of<br>Integrated PV System<br>with PID Controller<br>Based Shunt Active<br>Filter        | 2022 IEEE North<br>Karnataka<br>Subsection Flagship<br>International<br>Conference  | Vijaypur,<br>India             | 20-21<br>November<br>2022 | 2022 |
| 107 | B. S. Goud;<br>Ch. N. Kalyan;<br>G. S. Rao;<br>B. Nagi Reddy,<br>Y. Anil kumar,<br>Ch. Rami Reddy     | Combined LFC and<br>AVR Regulation of<br>Multi Area<br>Interconnected Power<br>System Using Energy<br>Storage Devices | 2022 IEEE 2nd<br>International<br>Conference on<br>Sustainable Energy<br>and Future Electric<br>Transportation  | Hyderabad,<br>India            | 04-06<br>August<br>2022   | 2022 |

|     |  |   |   |   |                            |      |
|-----|--|---|---|---|----------------------------|------|
| 108 | B. S. Goud;<br>Ch. N. Kalyan;<br>N. Keerthi;<br>Ch. Rami Reddy;<br>Mohit Bajaj,<br>B Nagi Reddy      | AGC of Multi Area<br>Multi Fuel System with<br>Water Cycle Algorithm<br>based 3DOF-PID<br>Controller and<br>Integration of PEVs               | 2021 International<br>Conference on Data<br>Analytics for<br>Business and<br>Industry (ICDABI)  | Sakheer,<br>Bahrain                     | 25-26<br>October<br>2021   | 2021 |
| 109 | Ch. N. Kalyan;<br>Khamruddin;<br>B. S. Goud;<br>Ch. Rami Reddy,<br>S. Hossein                        | Ascertainment of<br>Appropriate GRC<br>Structure for Two Area<br>Thermal System under<br>Seagull Optimization<br>based 2DOF-PID<br>Controller | 2021 7th<br>International<br>Conference on<br>Signal Processing<br>and Intelligent<br>Systems (ICSPIS)  | Tehran, Iran,<br>Islamic<br>Republic of | 29-30<br>December<br>2021  | 2021 |
| 110 | Ch. N. Kalyan; B. S.<br>Goud;<br>Ch. Rami Reddy;<br>B. Nagi Reddy;<br>Mohit Bajaj,<br>AV Sudhakar    | Falcon Optimizer<br>based PID Controller<br>for AGC of Dual Area<br>Realistic System with<br>AC-DC Links                                      | 2021 International<br>Conference on<br>Technology and<br>Policy in Energy<br>and Electric Power<br>(ICT-PEP)  | Jakarta,<br>Indonesia                   | 29-30<br>September<br>2021 | 2021 |
| 111 | G. S. Rao;<br>Ch. N. Kalyan;<br>CV Vijay Kumar;<br>B. S. Goud,<br>M. Kiran Kumar,<br>Ch. Rami Reddy  | Automatic Voltage<br>Regulator Using Global<br>Optimization<br>Algorithms Based on<br>Traditional Controller                                  | 2022 International<br>Conference on<br>Intelligent<br>Controller and<br>Computing for<br>Smart Power<br>(ICICCSP)   | Hyderabad,<br>India                     | 21-23 July<br>2022         | 2022 |
| 112 | Ch. N. Kalyan;<br>M. Dilip Kumar;<br>B. S. Goud;<br>S. Hossein,<br>Ch. Rami Reddy,<br>M. Kiran kumar | Frequency Regulation<br>of Multi Area Hybrid<br>Source Power System<br>with Energy ANFIS<br>Devices   | 2022 CPSSI 4th<br>International<br>Symposium on<br>Real-Time and<br>Embedded Systems<br>and Technologies  | Tehran, Iran,<br>Islamic<br>Republic of | 30-31 May<br>2022          | 2022 |
| 113 | Kondalu M.;<br>Akhil K.;<br>Reddy C.R.;<br>Sai Kalyan C.N.;<br>Varma P.S.;<br>Reddy B.N.             | Energy Management of<br>Hybrid power<br>generation with ANFIS<br>Controller   | 2022 Sardar Patel<br>International<br>Conference on<br>Industry 4.0 -<br>Nascent<br>Technologies and<br>Sustainability for<br>'Make in India'<br>Initiative, SPICON<br>2022 | Mumbai,<br>India                        | 22-23 Dec<br>2022          | 2022 |
| 114 | CH. N. Kalyan;<br>G. S. Rao;<br>K. Rambabu;<br>M. Kiran Kumar,<br>B. S. goud,<br>Ch. Rami Reddy      | Exhibiting the Effect of<br>AVR Coupling on the<br>Performance of LFC in<br>Multi Area Hybrid<br>Power System                                 | 2022 3rd<br>International<br>Conference for<br>Emerging<br>Technology<br>(INCET)  | Belgaum,<br>India                       | 27-29 May<br>2022          | 2022 |

|     |  |  |  |                                  |                          |      |
|-----|--|--|--|----------------------------------|--------------------------|------|
| 115 | Ch. N. Kalyan;<br>B. S. Goud;<br>Ch. Rami Reddy;<br>Mohit Bajaj;<br>V. N. Tulsy,<br>Salh Kamel       | Fruit Fly Optimization<br>Technique Based<br>Regulator for LFC of<br>Conventional Power<br>System with the<br>Integration of Plugin<br>Electric Vehicles               | 2023 5th<br>International Youth<br>Conference on<br>Radio Electronics,<br>Electrical and<br>Power Engineering<br>(REEPE) | Moscow,<br>Russian<br>Federation | 16-18<br>March 2023      | 2023 |
| 116 | Ch. N. Kalyan;<br>Pasala Gopi;<br>Ch. Rami Reddy;<br>Y. Belkhier;<br>Mohit Bajaj,<br>R. Nath Shaw    | Integral Double<br>Derivative Plus Filter<br>Controller for<br>Frequency Regulation<br>of Dual Area Power<br>System with HVDC<br>Line                                  | 2023 IEEE IAS<br>Global Conference<br>on Renewable<br>Energy and<br>Hydrogen<br>Technologies<br>(GlobConHT)              | Male,<br>Maldives                | 11-12<br>March 2023      | 2023 |
| 117 | Ch. N. Kalyan;<br>B. S. Goud;<br>Ch. Rami Reddy;<br>Mohit Bajaj;<br>V. N. Tulsy,<br>Salh Kamel       | Revealing the<br>Significance of Time<br>Delays on the<br>Performance of Diverse<br>Source Power Systems<br>under Fruit Fly<br>Optimization Tuned<br>3DOFTID Regulator | 2023 5th<br>International Youth<br>Conference on<br>Radio Electronics,<br>Electrical and<br>Power Engineering<br>(REEPE) | Moscow,<br>Russian<br>Federation | 16-18<br>March 2023      | 2023 |
| 118 | Ch. N. Kalyan;<br>M. Dilip Kumar;<br>K. Mamatha;<br>B. S. Goud;<br>Ch. Rami Reddy;<br>M. Kiran Kumar | Demonstrating the<br>Predominance of Time<br>Delays on Frequency<br>Regulation of Dual<br>Area Realistic Power<br>System under<br>2DOFPID Controller                   | 2022 IEEE 2nd<br>Mysore Sub Section<br>International<br>Conference<br>(MysuruCon)  | Mysuru, India                    | 16-17<br>October<br>2022 | 2022 |
| 119 | Ch. N. Kalyan;<br>Ch. Rami Reddy;<br>B. S. Goud;<br>Mohit Bajaj;<br>Youcef Belkhier;<br>R. Nath Shaw | TCPS and SMES<br>Coordinated<br>Supplementary<br>Control for<br>Interconnected Power<br>System Stability   | 2023 IEEE IAS<br>Global Conference<br>on Renewable<br>Energy and<br>Hydrogen<br>Technologies<br>(GlobConHT)              | Male,<br>Maldives                | 11-12<br>March 2023      | 2023 |
| 120 | Ch. N. Kalyan;<br>Ch. Rami Reddy;<br>B. S. Goud;<br>Mohit Bajaj;<br>M. A. Tolba;<br>Salah Kamel      | CES and TCSC based<br>Supplementary<br>Controller for Stability<br>of Renewable Energy<br>Integrated Nonlinear<br>Power System   | 2023 5th<br>International Youth<br>Conference on<br>Radio Electronics,<br>Electrical and<br>Power Engineering            | Moscow,<br>Russian<br>Federation | 16-18<br>March 2023      | 2023 |
| 121 | Ch. Rami Reddy;<br>K. H. Reddy;<br>B. S. Goud;<br>B. Pakkiraiah                                      | A Deep learning<br>approach for Islanding<br>Detection of Integrated<br>DG with CWT and<br>CNN   | 2021 International<br>Conference on<br>Sustainable Energy<br>and Future Electric<br>Transportation                       | Hyderabad,<br>India              | 21-23<br>January<br>2021 | 2021 |

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|-----|--|--|---|--------------------|-----------------------------|------|
| 122 | Ch. Rami Reddy;<br>A. Giri Prasad;<br>D. C. Sekhar;<br>B. S. Goud;<br>K. Kumari;<br>M. Dilip Kumar | Voltage Sag and Swell Compensation in Integrated System using Advanced UPQC      | 2021 International Conference on Decision Aid Sciences and Application (DASA) | Sakheer, Bahrain   | 07-08 December 2021         | 2021 |
| 123 | G. S. Rao;<br>B. S. Goud;<br>Ch. Rami Reddy  | Power Quality Improvement using ASO Technique                                    | 2021 9th International Conference on Smart Grid (icSmartGrid)                 | Setubal, Portugal  | 29 June 2021 - 01 July 2021 | 2021 |
| 124 | B. S. Goud;<br>B. L. Rao;<br>B. Nagi Reddy;<br>N. Rajesh;<br>B. Anjan;<br>Ch. Rami Reddy           | Optimization Techniques in PV-Wind based Distribution Generation- A Brief Review | 2020 IEEE 17th India Council International Conference (INDICON)               | New Delhi, India   | 10-13 December 2020         | 2020 |
| 125 | B. S. Goud;<br>P. S. Varma;<br>B. L. Rao;<br>M. SK Reddy;<br>A. Pandian;<br>Ch. Rami Reddy         | Cuckoo Search Optimization based MPPT for Integrated DFIG-Wind Energy System     | 2020 International Conference on Decision Aid Sciences and Application (DASA) | Sakheer, Bahrain   | 08-09 November 2020         | 2020 |
| 126 | B. S. Goud;<br>R. Rekha;<br>MRL Jyostna;<br>S. Sarala;<br>B. L. Rao;<br>Ch. Rami Reddy             | Energy Management and Power Quality Improvement in HRES Grid-Connected System    | 2020 FORTEI-International Conference on Electrical Engineering (FORTEI-ICEE)  | Bandung, Indonesia | 23-24 September 2020        | 2020 |
| 127 | Ch. Rami Reddy;<br>B. S. Goud;<br>B. Nagi Reddy;<br>M. Pratyusha;<br>CVV Kumar;<br>R. Rekha        | Review of Islanding Detection Parameters in Smart Grids                          | 2020 8th International Conference on Smart Grid (icSmartGrid)                 | Paris, France      | 17-19 June 2020             | 2020 |

## Book Chapters

| Sl. No | Authors Name   | Title of the book chapter   | Name of the book                      | ISBN Number | Year |
|--------|--|---|---------------------------------------|-------------|------|
| 128    | Ambati G.;<br>Sannitha B.;<br>Meghana N.;<br>Prashanth T.;<br>Karthik C.;<br>Rami Reddy C. | Islanding Detection and Prevention of Blackout of Distribution System Using Decision Tree Algorithm-Based Load Shedding | Lecture Notes in Networks and Systems |             | 2024 |
| 129    | Reddy S.V.R.;<br>Premila T.R.;<br>Reddy C.R.   | Passive Islanding Detection and Load Shedding Techniques in Micro Grids: A Brief Review                                 | Communications in Computer and        |             | 2024 |

|     |   |   |   |                   |      |
|-----|---|---|---|-------------------|------|
|     |   |   | Information Science                                   |                   |      |
| 130 | Srikanth Goud B.;<br>Rami Reddy C.;<br>Kondalu M.;<br>Nagi Reddy B.;<br>Srinivasa Rao G.;<br>Naga Sai Kalyan C. | Islanding Detection of Integrated DG with Phase Angle Between Voltage and Current   | Lecture Notes in Electrical Engineering               |                   | 2024 |
| 131 | Rami Reddy C.;<br>Kondalu M.;<br>Ravindra S.;<br>Srinivasa Rao G.;<br>Srikanth Goud B.;<br>Narasimha Reddy A.   | Convolution Neural Network and Continuous Wavelet Transform-Based Islanding Detection of Integrated DG with Phase Angle Between Voltage and Current | Smart Energy and Advancement in Power Technologies    | 978-981-19-4971-5 | 2023 |
| 132 | CH. N. Kalyan,<br>C. V. Suresh,<br>U. Ramanaiah,<br>B. Srikanth Goud,<br>Ch. Rami Reddy                         | Coordinated Strategy of Ultra-Capacitors and UPFC for LFC of Dual Area Conventional System Having Classical PID Controller with Set Point Filter    | Smart Energy and Advancement in Power Technologies    | 978-981-19-4971-5 | 2023 |
| 133 | M. Jayachandran,<br>G. Srinivasa Rao &<br>Ch. Rami Reddy  | A Unique Interlinking Converter Control for Hybrid AC/DC Islanded Microgrids  | Sustainable Communication Networks and Application    | 978-981-16-6605-6 | 2022 |
| 134 | Ch. Rami Reddy,<br>Ch. N. Kumar,<br>N. Srinivas,<br>M. Kondalu,<br>B. S. Goud                                   | Harmonic Compensation in Integrated System Using Inductive UPQC   | Recent Advances in Power Systems                      | 978-981-16-6970-5 | 2022 |
| 135 | B. Srikanth Goud,<br>B. Loveswara Rao,<br>Aymen Flah,<br>Mohit Bajaj,<br>N. K. Sharma &<br>Ch. Rami Reddy       | Biogeography-Based Optimization for Power Quality Improvement in HRES System  | Power Electronics and High Voltage in Smart Grid      | 978-981-16-7393-1 | 2022 |
| 136 | R. Rekha,<br>B. Srikanth Goud,<br>Ch. Rami Reddy<br>& B. Nagi Reddy   | PV-Wind-Integrated Hybrid Grid with P&O Optimization Technique  | Innovations in Electrical and Electronics Engineering | 978-981-15-2256-7 | 2021 |
| 137 | Ch. Rami Reddy,<br>K. H. Reddy &<br>K. V. Siva Reddy  | Recognition of islanding data for multiple distributed generation systems with ROCOF shore up analysis  | Smart Intelligent Computing and Applications          | 978-981-13-1921-1 | 2018 |

## Patents

| Sl. No | Patent Title  | Name of the Applicants | Patent No.   | Award Date | Agency/ Country | Status    |
|--------|---|------------------------|--------------|------------|-----------------|-----------|
| 1      | Islanding detection for inverter based distributed generation | Ch. Rami Reddy         | 202141027908 | 09-07-2021 | India           | Published |

|   |   |                |              |            |       |               |
|---|---|----------------|--------------|------------|-------|---------------|
|   | with low frequency current harmonic injection through q controller and ROCOF analysis                     |                |              |            |       |               |
| 2 | Hybrid ROCOF Relay for Islanding Detection  | Ch. Rami Reddy | 202141036362 | 20-08-2021 | India | Published     |
| 3 | Customized convolution Neural Networks for Islanding Detection in Micro Grids                             | Ch. Rami Reddy | 202241060613 | 28-10-2022 | India | FER Submitted |
| 4 | Location Determination of Electric Vehicles Parking Lot   | Ch. Rami Reddy | 202241058938 | 21-10-2022 | India | Published     |
| 5 | Resultant sequence impedance component based passive islanding detection and load shedding in micro grids | Ch. Rami Reddy | 202341058980 | 06-10-2023 | India | FER Submitted |
| 6 | A new variational mode decomposition-based islanding detection in grid connected hybrid DG system         | Ch. Rami Reddy | 202341059040 | 06-10-2023 | India | FER Submitted |

I hereby declare that the above particulars are true, correct and complete to the best of my knowledge

**Date:** 30- August- 2025

**Place:** Hyderabad, India



(Dr. Ch. Rami Reddy)